

09/787853

=> d his

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(FILE 'CA' ENTERED AT 14:15:06 ON 08 NOV 2002)
      DEL HIS
      E MORT III PAUL R/AU
      E MORT PAUL R/AU
L1      17 S E1-E4
      E CAPECI SCOTT WILLIAM/AU
L2      32 S E1-E3
      E PERKIS KRISTIN NICOLE/AU
L3      1 S E3
      E NORWOOD KEVIN TODD/AU
L4      8 S E1-E3
      E BURGESS GEORGE/AU
L5      4 S E3
L6      2 S DETERGENT# (P) RATE (2W) DISPERS?
L7      26 S RATE (2W) DISPERSION (P) (EQUATION OR FORMULA)
L8      1 S RATE (2W) DISSOLUTION (P) DETERGENT#
L9      264 S DETERGENT# (P) (DISSOLVED OR UNDISSOLVED OR UNDISPERSED OR
DISP
L10     264 S PARTICLE (W) (SIZE OR DIAMETER) AND BULK DENSIT?
L11     0 S L9 AND L10
L12     9 S PARTICLE (W) (SIZE OR DIAMETER) AND L9
L13     2 S L9 AND BULK DENSIT?
L14     4709 S (DETERGENT# OR DETERSIVE# OR TENSIDE#) (P) (RESIDUE# OR
RESIDUA
L15     303 S (DETERGENT# OR DETERSIVE# OR TENSIDE#) (P) (RESIDUE# OR
RESIDUA
L16     1 S L15 AND BULK DENSIT?
L17     3 S (DETERGENT# OR DETERSIVE# OR TENSIDE#) (P) (RESIDUE# OR
RESIDUA
L18     10 S UNDISSOLVED (5A) (DETERGENT# OR SURFACTANT OR SURFACE ACTIVE)
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FILE 'USPATFULL' ENTERED AT 14:54:05 ON 08 NOV 2002
L19     13 S L6
L20     10 S L7
L21     159 S L8
L22     50 S L21 AND BULK DENSIT?
L23     50 S L22 AND (SIZE OR DIAMETER OR MM OR MICRON#)
L24     79 S L17
L25     19 S L24 AND BULK DENSIT?
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L1 17 ("MORT PAUL"/AU OR "MORT PAUL III"/AU OR "MORT PAUL R"/AU OR
"MORT PAUL R III"/AU)

=> d 1-17 11 ti

L1 ANSWER 1 OF 17 CA COPYRIGHT 2002 ACS

TI Granular detergent compositions having surfactant particle with reduced electrolyte concentrations

L1 ANSWER 2 OF 17 CA COPYRIGHT 2002 ACS

TI Process for coating laundry detergent granules in a fluidized bed

L1 ANSWER 3 OF 17 CA COPYRIGHT 2002 ACS

TI Preparation of coated detergent particles from inorg. material solutions

L1 ANSWER 4 OF 17 CA COPYRIGHT 2002 ACS

TI Scale-up of agglomeration processes using transformations

L1 ANSWER 5 OF 17 CA COPYRIGHT 2002 ACS

TI Detergent granules providing reduced gelling, low dissolution and less residue in the wash

L1 ANSWER 6 OF 17 CA COPYRIGHT 2002 ACS

TI Continuous process for manufacturing granular detergent

L1 ANSWER 7 OF 17 CA COPYRIGHT 2002 ACS

TI Granular compositions having improved dissolution in laundering of clothes

L1 ANSWER 8 OF 17 CA COPYRIGHT 2002 ACS

TI Manufacture of low-density detergent compositions by controlling agglomeration via particle sizes

L1 ANSWER 9 OF 17 CA COPYRIGHT 2002 ACS

TI Manufacture of high-surfactant content detergent agglomerates by multi-stage surfactant paste injection

L1 ANSWER 10 OF 17 CA COPYRIGHT 2002 ACS

TI Dimensional analysis of agglomeration: scale-up using transformations

L1 ANSWER 11 OF 17 CA COPYRIGHT 2002 ACS

TI Critical parameters and limiting conditions in binder granulation of fine powders

L1 ANSWER 12 OF 17 CA COPYRIGHT 2002 ACS

TI Multicomponent powder mixing and compositions produced by this process

L1 ANSWER 13 OF 17 CA COPYRIGHT 2002 ACS

TI The structure of mixtures of particles generated by time-dependent flows

L1 ANSWER 14 OF 17 CA COPYRIGHT 2002 ACS

TI Determination of homogeneity scale in ordered and partially ordered mixtures

L1 ANSWER 15 OF 17 CA COPYRIGHT 2002 ACS

TI The effect of ordered mixing on the synthesis of multi-component ceramics

L1 ANSWER 16 OF 17 CA COPYRIGHT 2002 ACS

TI Automated generation and analysis of powder compaction diagrams

L1 ANSWER 17 OF 17 CA COPYRIGHT 2002 ACS

TI Reactive multicomponent powder mixtures prepared by microencapsulation:
lead magnesium niobium oxide ($\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$) synthesis

=>

L2 32 ("CAPECI SCOTT"/AU OR "CAPECI SCOTT W"/AU OR "CAPECI SCOTT
WILLI
AM"/AU)

=> d 1-32 12 ti

L2 ANSWER 1 OF 32 CA COPYRIGHT 2002 ACS

TI Granular bleach activators having improved solubility profiles

L2 ANSWER 2 OF 32 CA COPYRIGHT 2002 ACS

TI Process for making a granular laundry detergent composition with good solubility at cold temperature

L2 ANSWER 3 OF 32 CA COPYRIGHT 2002 ACS

TI Process for coating laundry detergent granules in a fluidized bed

L2 ANSWER 4 OF 32 CA COPYRIGHT 2002 ACS

TI Processes for making granular detergent in a fluidized bed granulator having recycling of improperly sized particles

L2 ANSWER 5 OF 32 CA COPYRIGHT 2002 ACS

TI Process for making a granular detergent composition containing a selected crystalline calcium carbonate builder

L2 ANSWER 6 OF 32 CA COPYRIGHT 2002 ACS

TI Processing granular detergent compositions having improved appearance and cold water solubility

L2 ANSWER 7 OF 32 CA COPYRIGHT 2002 ACS

TI Detergent particles, their manufacture and processes for controlling bulk density in detergent particles

L2 ANSWER 8 OF 32 CA COPYRIGHT 2002 ACS

TI Granular detergent compositions having homogeneous particles for improved solubility in the wash and their production same

L2 ANSWER 9 OF 32 CA COPYRIGHT 2002 ACS

TI Detergent compositions containing magnesiosilicate builders

L2 ANSWER 10 OF 32 CA COPYRIGHT 2002 ACS

TI Manufacture of high-surfactant content detergent agglomerates by multi-stage surfactant paste injection

L2 ANSWER 11 OF 32 CA COPYRIGHT 2002 ACS

TI Making a selected inexpensive crystalline calcium carbonate builder for use in detergent compositions

L2 ANSWER 12 OF 32 CA COPYRIGHT 2002 ACS

TI Carrier-supported acyclic imide bleach activators, their manufacture and use in granular detergent compositions

L2 ANSWER 13 OF 32 CA COPYRIGHT 2002 ACS

TI Processing a crystalline builder having improved performance for detergents

L2 ANSWER 14 OF 32 CA COPYRIGHT 2002 ACS

TI Continuous process for making high-density detergents

L2 ANSWER 15 OF 32 CA COPYRIGHT 2002 ACS
TI Process for making a granular, high-density detergent composition containing a crystalline builder

L2 ANSWER 16 OF 32 CA COPYRIGHT 2002 ACS
TI Compact powdered detergent process technologies

L2 ANSWER 17 OF 32 CA COPYRIGHT 2002 ACS
TI Process for making a high density detergent composition by controlling agglomeration within a dispersion index

L2 ANSWER 18 OF 32 CA COPYRIGHT 2002 ACS
TI manufacture of high density detergent compositions from non-aqueous binder-containing surfactant pastes

L2 ANSWER 19 OF 32 CA COPYRIGHT 2002 ACS
TI Process for making a high density detergent composition by controlling agglomeration within a Dispersion Index

L2 ANSWER 20 OF 32 CA COPYRIGHT 2002 ACS
TI Processes for making a compact granular detergent composition containing a crystalline builder material

L2 ANSWER 21 OF 32 CA COPYRIGHT 2002 ACS
TI Processes for making a crystalline builder material having improved performance

L2 ANSWER 22 OF 32 CA COPYRIGHT 2002 ACS
TI Process for making high density detergent composition using conditioned air

L2 ANSWER 23 OF 32 CA COPYRIGHT 2002 ACS
TI Process for making a high density detergent composition which includes selected recycle streams

L2 ANSWER 24 OF 32 CA COPYRIGHT 2002 ACS
TI Agglomeration process for making a detergent composition utilizing existing spray drying towers for conditioning detergent agglomerates

L2 ANSWER 25 OF 32 CA COPYRIGHT 2002 ACS
TI Continuous process for making a high density detergent composition in a single mixer/densifier with selected recycle streams for improved agglomerate properties

L2 ANSWER 26 OF 32 CA COPYRIGHT 2002 ACS
TI High density detergent agglomerates using an anhydrous powder additive

L2 ANSWER 27 OF 32 CA COPYRIGHT 2002 ACS
TI Process for making a high-density detergent composition

L2 ANSWER 28 OF 32 CA COPYRIGHT 2002 ACS
TI Preparation of detergent composition having high bulk density and good solubility by agglomeration of anionic surfactants

L2 ANSWER 29 OF 32 CA COPYRIGHT 2002 ACS
TI Continuous preparation of high-density detergent granules using a mixer-densifier

L2 ANSWER 30 OF 32 CA COPYRIGHT 2002 ACS

TI Process for making high density detergent agglomerates

L2 ANSWER 31 OF 32 CA COPYRIGHT 2002 ACS

TI Process for making high density detergent agglomerates using an anhydrous powder additive

L2 ANSWER 32 OF 32 CA COPYRIGHT 2002 ACS

TI The molecular-level interpretation of salt uptake and anion transport in Nafion membranes

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L4 8 ("NORWOOD KEVIN"/AU OR "NORWOOD KEVIN T"/AU OR "NORWOOD KEVIN TODD"/AU)

=> d 1-8 14 ti

L4 ANSWER 1 OF 8 CA COPYRIGHT 2002 ACS
TI Foaming system and granular laundry detergent compositions

L4 ANSWER 2 OF 8 CA COPYRIGHT 2002 ACS
TI Detergent compositions of fast dissolution in the wash

L4 ANSWER 3 OF 8 CA COPYRIGHT 2002 ACS
TI Solid detergent compositions having improved dissolution and leave less residue in the wash

L4 ANSWER 4 OF 8 CA COPYRIGHT 2002 ACS
TI Solid detergent compositions having improved dissolution and leave less residue in the wash

L4 ANSWER 5 OF 8 CA COPYRIGHT 2002 ACS
TI Detergent granules providing reduced gelling, low dissolution and less residue in the wash

L4 ANSWER 6 OF 8 CA COPYRIGHT 2002 ACS
TI Granular compositions having improved dissolution in laundering of clothes

L4 ANSWER 7 OF 8 CA COPYRIGHT 2002 ACS
TI Determination of Alkyl Sulfates and Alkyl Ethoxysulfates in Wastewater Treatment Plant Influent and Effluent and in River Water Using Liquid Chromatography/Ion Spray Mass Spectrometry

L4 ANSWER 8 OF 8 CA COPYRIGHT 2002 ACS
TI Photoion-photoelectron coincidence studies of clusters and transient molecules

=>

L5 4 "BURGESS GEORGE"/AU

=> d 1-4 15 ti

L5 ANSWER 1 OF 4 CA COPYRIGHT 2002 ACS

TI Laundry detergent with zeolite builder system

L5 ANSWER 2 OF 4 CA COPYRIGHT 2002 ACS

TI Laundry detergent with zeolite builder system

L5 ANSWER 3 OF 4 CA COPYRIGHT 2002 ACS

TI Producing granular detergent components or compositions

L5 ANSWER 4 OF 4 CA COPYRIGHT 2002 ACS

TI Production of granular detergent components or compositions containing Zeolite HS and having high bulk density and good flow properties

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L6 2 DETERGENT#(P)RATE(2W)DISPERS?

=> d 1-2 l6 ti

L6 ANSWER 1 OF 2 CA COPYRIGHT 2002 ACS

TI Agglomerating solids from liquid dispersions

L6 ANSWER 2 OF 2 CA COPYRIGHT 2002 ACS

TI Mechanism of action of the phospholipases A2 from Bothrops neuwiedii. I

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> d 1-9 112 ti

L12 ANSWER 1 OF 9 CA COPYRIGHT 2002 ACS

TI Solid acids in molded detergents

L12 ANSWER 2 OF 9 CA COPYRIGHT 2002 ACS

TI Powder detergent composition for cold water laundering of fabrics

L12 ANSWER 3 OF 9 CA COPYRIGHT 2002 ACS

TI Finely divided alkali metal silicate glass

L12 ANSWER 4 OF 9 CA COPYRIGHT 2002 ACS

TI Agglomerating alkali metal silicate particles by tumbling and rolling while heating and cooling

L12 ANSWER 5 OF 9 CA COPYRIGHT 2002 ACS

TI Selection of lubricants for manufacture of sintered iron powder products

L12 ANSWER 6 OF 9 CA COPYRIGHT 2002 ACS

TI Variation of some textural properties of alumina with the surface-active additive used in its preparation

L12 ANSWER 7 OF 9 CA COPYRIGHT 2002 ACS

TI American Society for Testing Materials, Standards, 1955, VII. Textiles, soap, water, paper, adhesives, shipping containers, atmospheric analysis

L12 ANSWER 8 OF 9 CA COPYRIGHT 2002 ACS

TI American Society for Testing Materials, Standards, 1952. VII. Textiles, soap, water, paper, adhesives, shipping containers

L12 ANSWER 9 OF 9 CA COPYRIGHT 2002 ACS

TI Sulfonation of alkyl aromatic hydrocarbons

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L13 ANSWER 2 OF 2 CA COPYRIGHT 2002 ACS
 AN 102:222491 CA
 TI High-**bulk-density** detergent compositions
 PA Lion Corp., Japan
 SO Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM C11D003-04
 ICS C11D017-06
 CC 46-5 (Surface Active Agents and Detergents)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 60015500	A2	19850126	JP 1983-124368	19830708
	JP 04049600	B4	19920811		

AB The title compns. contain (A) metal H sulfites and/or metal H phosphites and (B) alk. compds. and have outstanding excellent soly., even in cold water, in spite of their high bulk d. Thus, 20 parts powd. NaHSO3 and 20 parts Na percarbonate were uniformly mixed with 60 parts powd. **detergent** contg. a long-chain alkylbenzenesulfonate 50, zeolite 20, and Na2SO4 30 wt.%, placed in a vessel (inner diam. 3 cm, height 1 cm), closed, and pressed at 11 kg/cm2 to prep. a tablet (bulk d. 0.9 g), 40 g of which showed no **residue** after being stirred 50 min in 30 mL H2O and filtered by suction through a 100-mesh screen. An artificially soiled cloth (cotton knit) was washed in a soln. of 20 g tablets in 30 L H2O at 10.degree. and bath ratio 30 for 10 min, rinsed twice for 3 min, dewatered, and dried; the degree of stain removal was 100%. A tablet (bulk d. 0.7) contg. no NaHSO3 and Na percarbonate was 76% **undissolved** and showed degree of stain removal 40%.

ST phosphite bisulfite percarbonate detergent
 IT Phosphites
 RL: USES (Uses)
 (laundry detergents contg. alk. compds. and, with high bulk d.)

IT Detergents
 (laundry, tablets, contg. bisulfite and alk. compds., with high bulk d.)

IT 4452-58-8
 RL: USES (Uses)
 (laundry detergents contg. bisulfite and, alkylbenzenesulfonate-based, with high bulk d.)

IT 497-19-8, uses and miscellaneous
 RL: USES (Uses)
 (laundry detergents contg. bisulfite and, with high bulk d.)

IT 7631-90-5
 RL: TEM (Technical or engineered material use); USES (Uses)
 (laundry detergents contg., alkylbenzenesulfonate-based, with high bulk d.)

IT 1333-73-9 7773-03-7
 RL: TEM (Technical or engineered material use); USES (Uses)
 (laundry detergents contg., with high bulk d.)

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16 ANSWER 1 OF 1 CA COPYRIGHT 2002 ACS

AN 122:109382 CA

TI Granular detergent compositions with high **bulk density**

IN Yamagishi, Satoshi; Yoneyama, Juji

PA Lion Corp, Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C11D017-06

ICS C11D001-74

CC 46-5 (Surface Active Agents and Detergents)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 06192698	A2	19940712	JP 1992-359034	19921225
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	JP 3183739	B2	20010709		
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AB Title compns., readily sol. in cold water with no adhesion to garments after cleaning, comprise 10-50% nonionic and anionic surfactants at mix ratio 95/5 - 30/70 with .gtoreq.20% of the nonionic surfactants accounted for by R1CO(OR2)nOR3 (R1CO = C6-22 satd. or unsatd. fatty acid **residue**; R2 = C2-4 alkylene; R3 = C1-4 alkyl; n = 5-30). Thus, a granular **detergent** compn. with av. diam. 500 .mu.m and bulk d. 0.9 contg. polyoxyethylene laurate Me ether 5, polyoxyethylene lauryl ether 10, .alpha.-sulfo-C12-18-fatty acid Me ester Na salt 15, zeolite

25, K2CO3 9, Na2SO3 1, protease 1.1, fluorescent brightener 0.4%, and balance Na2SO4 **dissolved** completely in H2O at 5.degree. when 5 g of the compn. was stirred in 1 L H2O at 1500 rpm for 8 min and showed no adhesion

to garments in test cleaning.

ST granular detergent polyoxyalkylene ester salt; nonionic anionic mixt granular detergent; high **bulk density** granular

detergent; cold water soly granular detergent; laundry detergent granular

IT Polyoxyalkylenes, uses

RL: TEM (Technical or engineered material use); USES (Uses)

(fatty acid esters, alkyl ethers; laundry granular detergents contg., with good soly. in cold water and no adhesion to garments after cleaning)

IT Detergents

(laundry, granular; contg. polyoxyalkylene fatty acid ester alkyl ethers, with good soly. in cold water and no adhesion to garments

after

cleaning)

IT 9006-27-3 34397-99-4 53467-81-5

RL: TEM (Technical or engineered material use); USES (Uses)

(granular detergents contg., with good soly. in cold water and no adhesion to garments after cleaning)

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L20 10 RATE(2W)DISPERSION(P) (EQUATION OR FORMULA)

=> d 1-10 l20 ti

L20 ANSWER 1 OF 10 USPATFULL

TI Road friction coefficient estimating apparatus

L20 ANSWER 2 OF 10 USPATFULL

TI Thermal dispersion probe with microcomputer controller

L20 ANSWER 3 OF 10 USPATFULL

TI Broadband pulse-reshaping optical fiber

L20 ANSWER 4 OF 10 USPATFULL

TI Dispersion compensating optical fiber, and wavelength division
multiplex
light transmission line using the same

L20 ANSWER 5 OF 10 USPATFULL

TI Optimized high-throughput analytical system

L20 ANSWER 6 OF 10 USPATFULL

TI Emulsion dispersing device and method

L20 ANSWER 7 OF 10 USPATFULL

TI Method of fabricating a wiring on a planarized surface

L20 ANSWER 8 OF 10 USPATFULL

TI Isophase birefringent filters

L20 ANSWER 9 OF 10 USPATFULL

TI Manufacturing process of mineral charges, products obtained and their
application

L20 ANSWER 10 OF 10 USPATFULL

TI Apparatus for the generation of gaseous formaldehyde from formaldehyde
polymer

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